IN THE CLAIMS

1. (original) A surgical tether for orthopedic treatment to secure to two adjacent bone portions, said tether comprising:

a cord having a tensile strength sufficient to maintain a desired distance or orientation of the two bone portions;

a first sheath substantially encasing the cord, said first sheath comprising a plurality of fibers and providing an abrasion resistant coating to the cord;

a radiopaque element; and

optionally, a second sheath, said second sheath substantially encasing the first sheath.

- 2. (previously presented) The tether of claim 1 wherein the cord is slidably received within the second outer sheath.
- 3. (original) The tether of claim 1 wherein the cord is elongate and defines a longitudinal axis and wherein the cord is free to move longitudinally with respect to the first sheath.
- 4. (previously presented) The tether of claim 1 wherein the first and second sheaths are frictionally engaged with each other.
 - 5. (original) The tether of claim 1 wherein the cord consists of a single fiber.

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- 6. (original) The tether of claim 1 wherein the cord comprises a plurality of fibers.
- 7. (original) The tether of claim 6 wherein the plurality of fibers are braided to provide the cord.
- 8. (original) The tether of claim 7 wherein the radiopaque element comprises a single radiopaque filament woven in the plurality of fibers.
- 9. (previously presented) The tether of claim 6 wherein the plurality of fibers are braided to provide the first sheath.
- 10. (original) The tether of claim 1 wherein the radiopaque element comprises barium sulfate.
- 11. (original) The tether of claim 1 wherein the first sheath comprises a radiopaque element.
- 12. (original) The tether of claim 1 wherein the radiopaque element comprises a single radiopaque filament woven in the plurality of filaments.
- 13. (original) The tether of claim 1 wherein the radiopaque element comprises a plurality of radiopaque filaments.

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- 14. (previously presented) The tether of claim 1 wherein the radiopaque element comprises one or more radiopaque filaments spirally wound around at least one of the cord, the first sheath, or the second sheath.
- 15. (original) The spinal tether of claim 1 comprising the optional second sheath substantially encasing the first sheath wherein second sheath is not fixedly secured to either the cord or the first sheath.
- 16. (original) The tether of claim 15 wherein the second sheath comprises a plurality of braided fibers.
- 17. (original) The tether of claim 15 wherein the radiopaque fiber is embedded within the second sheath.
- 18. (previously presented) The tether of claim 1 wherein the cord is elongate and defines a longitudinal direction and the second sheath is free to move longitudinally with respect to the first sheath or the cord.
- 19. (original) The tether of claim 1 wherein the tether is attached to a plurality of bone portions.

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- 20. (original) The tether of claim 1 wherein the cord or the first sheath or both are composed of an elastomeric material.
- 21. (previously presented) The tether of claim 1 wherein said tether secures to at least a first and second vertebrae.
- 22. (previously presented) The tether of claim 1 wherein said tether secures to at least an articulating joint.
 - 23. (original) The tether of claim 1 wherein the cord and the first sheath are flexible.
- 24. (original) The tether of claim 1 wherein the cord is composed of a polymeric material selected from the group consisting of: polyethylene, ultra high molecular weight polyethylene, polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene terephthalate, polyesters, polyaramid, silicon rubbers, polyurethane, polyvinylchloride.
- 25. (original) The tether of claim 24 wherein the first sheath is composed of a material different from the cord.
- 26. (original) The tether of claim 25 wherein the first sheath is composed of a material selected from the group consisting of: polyethylene, polypropylene, fluoropolymers,

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polytetrafluoroethylene, polyamides, polyethylene terephthalate, polyesters, polyaramid, silicon rubbers, polyurethane, polyvinylchloride.

- 27. (original) The tether of claim 1 wherein the cord and first sheath are composed of a biodegradable material.
- 28. (original) The tether of claim 1 wherein the cord and first sheath are composed of a non-biodegradable material.
- 29. (original) The tether of claim 1 comprising a first bone fastener and a second bone fastener to secure the tether to the two bone portions.
- 30. (original) The tether of claim 29 wherein the first and second bone fasteners secure the cord to the first and second bone portions.
- 31. (original) The tether of claim 30 wherein the first sheath is not secured to the two bone portions.
- 32. (original) The tether of claim 30 comprising the second sheath and wherein the second sheath is not secured to the two or more bone portions.

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- 33. (original) The tether of claim 1 wherein the radiopaque element is composed of a biocompatible metallic fiber.
- 34. (original) The tether of claim 33 wherein the radiopaque element is composed of a material selected from the group consisting of: nitinol, titanium, titanium-vanadium-aluminum alloy, cobalt-chromium alloy, cobalt-chromium-molybdenum alloy, cobalt-nickel-chromium-molybdenum alloy, stainless steel, tantalum, niobium, hafnium, tungsten, gold, silver, platinum, and iridium metals, alloys, and mixtures thereof.
- 35. (original) The tether of claim 1 wherein the radiopaque element exhibits an effective duration in vivo of between about one month and about 5 years.
- 36. (original) A surgical tether for orthopedic treatment to secure to two adjacent bone portions, said tether comprising:
- a cord having a tensile strength sufficient to maintain a desired distance or orientation of the two bone portions;
- a first sheath substantially encasing the cord, said first sheath comprising a plurality of fibers and providing an abrasion resistant coating to the cord; and

means for imparting radiolucency to the tether.

37. (original) A surgical tether for orthopedic treatment to secure adjacent bone portions, said tether comprising:

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION Serial No. 10/788,866 Attorney Docket: 4002-3434/PC834.00 Page 7 of 16 a cord having a tensile strength sufficient to maintain a desired distance or orientation of the bone portions;

a first sheath substantially encasing the cord, said first sheath comprising a plurality of fibers;

a radiopaque filament engaged with either the cord or the first sheath; and means for attaching the first sheath to the cord to provide an abrasion resistant coating to the cord.

38. (original) A method for treating an orthopedic defect, said method comprising:
securing a tether to a first bone portion, said tether comprising a cord, a first sheath
substantially encasing the cord, and a radiopaque element, wherein the cord and the first sheath
are free to move longitudinally relative to each other; and

attaching the cord to a second bone portion to secure the first bone portion and the second bone portion at a desired distance or orientation relative to each other.

- 39. (original) The method of claim 38 wherein said securing comprises securing the cord to the first bone portion.
 - 40. (original) The method of claim 38 wherein the tether comprises a second sheath.
- 41. (original) The method of claim 38 wherein the radiopaque element comprises a radiopaque fiber attached to the second sheath.

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- 42. (previously presented) The method of claim 38 wherein the radiopaque element comprises a radiopaque fiber attached to either the cord or first sheath.
- 43. (original) The method of claim 38 wherein the radiopaque element comprises a radiopaque fiber attached to the cord.
- 44. (original) The method of claim 38 wherein the radiopaque element comprises a radiopaque fiber attached to the first sheath.
- 45. (original) The method of claim 38 comprising positioning the first and second bone portions into a desired orientation or in close proximity to each other.
- 46. (original) The method of claim 38 wherein the first and second bone portions are first and second vertebrae.
- 47. (original) The method of claim 38 wherein the first and second bone portions each comprise a long bone.
- 48. (original) The method of claim 38 wherein the first and second bone portions comprise an articulating joint.

- 49. (original) The method of claim 38 wherein the tether is composed of one or more biodegradable materials.
- 50. (original) The method of claim 38 wherein the tether is composed of a nonbiodegradable material.
- 51. (original) The method of claim 38 wherein the cord is composed of a material different from the first sheath.
- 52. (original) The method of claim 38 wherein the cord is composed of a material selected from the group consisting of: polyethylene, ultra high molecular weight polyethylene, polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene terephthalate, polyesters, polyaramid, silicon rubbers. polyurethane, polyvinylchloride.
- 53. (original) The method of claim 38 wherein the first sheath is composed of a material selected from the group consisting of: polyethylene, ultra high molecular weight polyethylene, polypropylene, fluoropolymers, polytetrafluoroethylene, polyamides, polyethylene terephthalate, polyesters, polyaramid, silicon rubbers, polyurethane, polyvinylchloride.
- 54. (original) The method of claim 38 wherein the radiopaque element is composed of a biocompatible metal fiber.

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- 55. (previously presented) The method of claim 54 wherein the biocompatible metal fiber is selected from the group consisting of: nitinol, titanium, titanium-vanadium-aluminum alloy, cobalt-chromium-molybdenum alloy, cobalt-nickel-chromium-molybdenum alloy, stainless steel, tantalum, niobium, hafnium, tungsten, gold, silver, platinum, barium sulfate, and iridium metals, alloys, and mixtures thereof.
- 56. (previously presented) The method of claim 38 wherein the tether is secured to more than two bone portions.
 - 57. (original) The method of claim 38 comprising cutting the tether to a desired length.
 - 58. (original) The method of claim 57 comprising heat sealing the cut ends of the tether.

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